

Form PTO-1449 (modified)

Atty. Docket No.
11181.0027.NPUS00Serial No.
09/820,053

List of Patents and Publications for Applicant's

Applicant
Donald R. Owen

INFORMATION DISCLOSURE STATEMENT

Filing Date:
March 28, 2001Group:
1646

(Use several sheets if necessary)

U.S. Patent Documents
N/AForeign Patent Documents
N/AOther Art
See Page 1

Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
SS	C1	Bessalle, et al., "Structure-Function Studies of Amphiphilic Antibacterial Peptides," J. Med. Chem., 1993, 36:1203-1209.
SS	C2	Oh, J.E., et al., "Design, Synthesis and Characterization - (A Model Decapeptide)," J. Peptide Res., 1999, 54:129-136.
	C3	
	C4	
	C5	
	C6	
	C7	
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	C9	
	C10	
	C11	
	C12	
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See Page 1Foreign Patent Documents
See Page 2Other Art
See Page 2

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
SS	A1	6,001,805	12/14/1999	Jaynes et al.	514	12	08/12/1996
SS	A2	5,620,954	04/15/1997	Maloy	514	12	05/26/1995
SS	A3	5,861,478	01/19/1999	Jaynes	530	324	09/06/1995
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Foreign Patent Documents

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	B1						
	B2						
	B3						
	B4						
	B5						

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
SS	C1	Form PCT/ISA/220 International Search Report dated October 3, 2002
SS	C2	Zboinska et al. Antibacterial activity of phosphono dipeptides based on 1-amino-1-methylethanephosphonic acid. FEMS Microbiology Letters. 1990, Vol 70, pages 23-28, especially pages 23 and 25-27.
	C3	
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068370.0104Serial No.
09/820,053

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LIST OF PATENTS AND PUBLICATIONS FOR
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Filing Date
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Group

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	Translation YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SS	AA	Epand et al, "Diversity of antimicrobial peptides and their mechanisms of action," <i>Biochimica et Biophysica Acta</i> 1462, pp. 11-28 (1999)
	AB	Dathe et al, "Structural features of helical antimicrobial peptides: their potential to modulate activity on model membranes and biological cells," <i>Biochimica et Biophysica Acta</i> 1462, pp. 71-87 (1999)
	AC	Jia et al, "Antimicrobial Peptides Protect Coho Salmon from <i>Vibrio anguillarum</i> Infections," <i>Applied and Environmental Microbiology</i> , Vol. 66, No. 5, pp. 1928-1932 (May 2000)
	AD	Wang et al, "The effect of pH on the structure, binding and model membrane lysis by cecropin B and analogs," <i>Biochimica et Biophysica Acta</i> 1473, pp. 418-430 (1999)
	AE	Osapay et al., "Formation and Characterization of a Single Trp-Trp Cross-link in Indolicidin that Confers Protease Stability without Altering Antimicrobial Activity," <i>The Journal of Biological Chemistry</i> , Vol. 275, No. 16, pp. 12017-12022 (4/21/00)
	AF	Shin et al, "Effects of the hinge region of cecropin A(1-8)-magainin 2(1-12), a synthetic antimicrobial peptide, on liposomes, bacterial and tumor cells," <i>Biochimica et Biophysica Acta</i> 1463, pp. 209-218 (2000)
	AG	Rocca et al, "Simulation studies of the interaction of antimicrobial peptides and lipid bilayers," <i>Biochimica et Biophysica Acta</i> 1462, pp. 185-200 (1999)
	AH	Blondelle et al, "Lipid-induced conformation and lipid-binding properties of cytolytic and antimicrobial peptides: determination and biological specificity," <i>Biochimica et Biophysica Acta</i> 1462, pp. 89-108 (1999)
	AI	Giacometti et al, "Antimicrobial activity of polycationic peptides," <i>Peptides</i> 20, pp. 1265-1273 (1999)
	AJ	Baghian et al, "An Amphipathic α Helical Synthetic Peptide Analogue of Melittin Inhibits Herpes Simplex Virus-1 (HSV-1)-Induced Cell Fusion and Virus Spread," <i>Peptides</i> , Vol. 18, No.2, pp. 177-183 (1997)
	AK	Wu et al, "Improved Derivatives of Bactenecin, a Cyclic Dodecameric Antimicrobial Cationic Peptide," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 1274-1276 (May 1999)
	AL	Oh et al, "Activities of Synthetic Hybrid Peptides against Anaerobic Bacteria: Aspects of Methodology and Stability," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 68-72 (Jan. 2000)
	AM	Silvestro, et al, "Antibacterial and Antimembrane Activities of Cecropin A in <i>Escherichia coli</i> ," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 602-607 (March 2000)
	AN	Hancock, et al, "Peptide Antibiotics," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 1317-1323 (June 1999)
	AO	Schwab, et al, "In vitro Activities of Designated Antimicrobial Peptides against Multidrug-Resistant Cystic Fibrosis Pathogens," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 1435-1440 (June 1999)
	AP	Friedrich, et al, "Salt-Resistant Alpha-Helical Cationic Antimicrobial Peptides," <i>Antimicrobial Agents and Chemotherapy</i> , pp. 1542-1548 (July 1999)
	AQ	Goraya, et al, "Peptides with antimicrobial activity from four different families isolated from the skins of the North American Frogs <i>Rana luteiventris</i> , <i>Rana berlandieri</i> and <i>Rana pipiens</i> ," <i>Eur. J. Biochem</i> 267, pp. 894-900 (2000)
SS	AR	De Lucca et al, "Fungicidal properties, sterol binding, and proteolytic resistance of the synthetic peptide D4E1," <i>Can. J. Microbiol.</i> , 44, pp. 514-520 (1998)

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<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; font-size: 2em; font-weight: bold; transform: rotate(-45deg);">OIP E</div> <div style="position: absolute; top: 0; right: 0; font-size: 2em; font-weight: bold; transform: rotate(45deg);">JC33</div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-weight: bold;">APR 30 2001</div> <div style="position: absolute; bottom: 0; left: 0; font-size: 0.8em; transform: rotate(-45deg);">PATENT & TRADEMARK OFFICE</div> </div> <p style="margin-top: 10px;">LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</p>						Applicant: Owen			
						Filing Date March 28, 2001		Group	

REFERENCE CITATION			U.S. PATENT DOCUMENTS					
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FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	Translation		
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
<div style="font-size: 1.5em; font-weight: bold; margin-bottom: 10px;">SS</div> <div style="border-left: 1px solid black; height: 100px; margin-left: 5px;"></div>	AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI	Hong, et al, "Structure and Organization of Hemolytic and Nonhemolytic Diastereomers of Antimicrobial Peptides in Membranes," <i>Biochemistry</i> , 38, pp. 16963-16973 (1999) Hung, et al, "Membrane Lysis by the Antibacterial Peptides on Cecropins B1 and B3: A Spin-Label Electron Spin Resonance Study on Phospholipid Bilayers," <i>Biophysical Journal</i> , Vol. 77, pp. 3120-3233 (December 1999) Robertson, et al, "Peptidyl membrane-interactive molecules are cytotoxic to prostatic cancer cells in vitro," <i>World J Urol</i> 16, pp. 405-409 (1998) Martin, et al, "Evaluation of the effect of peptidyl membrane-interactive molecules on avian coccidia," <i>Parasitol Res</i> 85, pp. 331-336 (1999) Giacometti, et al, "In-vitro activity of cationic peptides alone and in combination with clinically used antimicrobial agents against <i>Pseudomonas aeruginosa</i> ," <i>Journal of Antimicrobial Chemotherapy</i> 44, pp. 641-645 (1999) Oh, et al, "Cationic peptide antimicrobials induce selective transcription of <i>micF</i> and <i>osmY</i> in <i>Escherichia coli</i> ," <i>Biochimica et Biophysica Acta</i> 1463, pp. 43-54 (2000) Scott, et al, "Biological Properties of Structurally Related α -Helical Cationic Antimicrobial Peptides," <i>Infection and Immunity</i> , Vol. 67, No. 4, pp. 2005-2009 (1999) Scott, et al, "Cutting Edge: Cationic Antimicrobial Peptides Block the Binding of Lipopolysaccharide (LPS) to LPS Binding Protein," <i>The Journal of Immunology</i> , pp. 549-553 (2000) Zhang, et al, "Influence of Proline Residues on the Antibacterial and Synergistic Activities of α -Helical Peptides," <i>Biochemistry</i> 38, pp. 8102-8111 (1999) Wu, et al, "Mechanism of Interaction of Different Classes of Cationic Antimicrobial Peptides with Planar Bilayers and with the Cytoplasmic Membrane of <i>Escherichia coli</i> ," <i>Biochemistry</i> 38, pp. 7235-7242 (1999) Lowenberger, et al, "Antimicrobial Activity Spectrum, cDNA Cloning, and mRNA Expression of a Newly Isolated Member of the Cecropin Family from the Mosquito Vector <i>Aedes aegypti</i> ," <i>The Journal of Biological Chemistry</i> , Vol. 274, No. 29, pp. 20092-20097 (1999) Kondejewski, et al, "Dissociation of Antimicrobial and Hemolytic Activities in Cyclic Peptide Diastereomers by Systematic Alterations in Amphipathicity," <i>The Journal of Biological Chemistry</i> , Vol. 274, No. 19, pp. 13181-13192 (May 7, 1999) Zhang, et al, "Determinants of Recombinant Production of Antimicrobial Cationic Peptides and Creation of Peptide Variants in Bacteria," <i>Biochemical and Biophysical Research Communications</i> 247, pp. 674-680 (1998) Hancock, "Host Defence (Cationic) Peptides. What Is Their Future Clinical Potential?" <i>Drugs</i> (4), pp. 469-473 (April 1999) Shin, et al, "Structure-antibacterial, antitumor and hemolytic activity relationships of cecropin A-magainin 2 and cecropin A-meliittin hybrid peptides," <i>J. Peptide Res.</i> 53, pp. 82-90 (1999) Juvvadi, et al, "Structure-activity studies of normal and retro pig cecropin-meliittin hybrids," <i>J. Peptide Res.</i> 53, pp. 244-251 (1999) Dushay, et al, "Two attacin antibacterial genes of <i>Drosophila melanogaster</i> ," <i>Gene</i> 246, pp. 49-57 (2000)

<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <div style="font-size: 1.5em; font-weight: bold; margin-bottom: 10px;">SS</div> <div style="border-left: 1px solid black; height: 100px; margin-left: 5px;"></div> </div> <div> <div style="font-size: 2em; font-weight: bold; transform: rotate(-45deg); position: absolute; top: 0; left: 0;">SL</div> <div style="font-size: 2em; font-weight: bold; transform: rotate(45deg); position: absolute; top: 0; right: 0;">SL</div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div>EXAMINER</div> <div>DATE CONSIDERED 8/26/03</div> </div>
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Translation

YES NO

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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BJ

Hancock, "Peptide antibiotics," *Lancet* 349, pp. 418-422 (1997)

BK

Ekengren, et al., "*Drosophila* cecropin as an antifungal agent," *Insect Biochemistry and Molecular Biology* 29, pp. 965-972 (1999)

BL

Hancock, et al., "Cationic peptides: a new source of antibiotics," *Tibtech*, Vol. 16, pp. 82-88 (February 1998)

BM

Reed, et al, "Interleukin 2 promoter/enhancer controlled expression of a synthetic cecropin-class lytic peptide in transgenic mice and subsequent resistance to *Brucella abortus*," *Transgenic Research* 6, pp. 337-347 (1997)

BM

Schwab, et al., "In Vitro Activities of Designed Antimicrobial Peptides against Multidrug-Resistant Cystic Fibrosis Pathogens," *Antimicrobial Agents and Chemotherapy*, Vol. 43, No. 6, pp. 1435-1440 (June 1999)

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BO

McInnes, et al., "Development of the Structural Basis for Antimicrobial and Hemolytic Activities of Peptides Based on Gramicidin S and Design of Novel Analogs Using NMR Spectroscopy," *The Journal of Biological Chemistry*, Vol. 275, No. 19, pp. 14287-14294 (May 2000)

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